

ABSTRACT

A starter for an internal combustion engine includes a planetary gear speed reduction mechanism, a pinion and a pinion drive shaft, a motor, a front housing having a plurality of fastening holes disposed at a circumference and a center casing having approximately the same outside diameter as the motor housing. The center housing is disposed between the motor housing and the front housing to align a motor shaft, the planetary gear speed reduction mechanism and the pinion drive shaft. The diameter of the motor housing is a maximum outside diameter of the fastening bolt less than the diameter of a circumference on which the fastening bolts are formed. Therefore, fastening bolts can be easily inserted into the fastening holes.